What is claimed is:

1.   A computer program used to direct a computer
to obtain a journal as an update result from a
5   source database, and distribute the journal to a
destination database, comprising:

obtaining   the   journal   from   the   source
database;

obtaining   transaction   identification
10   information   for   identifying   a   transaction   of
updating the source database when the journal is
obtained;

counting a number of times the source database
is updated;

15   rearranging the journal according to a count
value   and   the   transaction   identification
information before distributing a journal; and

distributing   the   rearranged   journal   to   the
destination   database   for   each   transaction   of
20   updating   the   source   database   according   to   the
transaction identification information.

2.   The   computer   program   according   to   claim   1,
further comprising:

25   associating   the   count   value   with   the

transaction identification information obtained when the count value is obtained, and storing the count value and the transaction identification information in a journal management information

5 storage unit;

associating the journal with the transaction identification information obtained when the journal is obtained, and storing the journal and the transaction identification information in a

10 journal storage unit;

at a predetermined timing, obtaining transaction identification information associated with a smallest count value from the journal management information storage unit; and

15 selecting a journal corresponding to the transaction identification information obtained from the journal management information storage unit in journals stored in the journal storage unit as a journal to be distributed.

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3. A journal obtaining-distributing method for use by a computer obtaining a journal as a update result from a source database, and distributing the journal to a destination database, comprising:

25 obtaining the journal from the source

database;

obtaining transaction identification information for identifying a transaction of updating the source database when the journal is

5 obtained;

counting a number of times the source database is updated;

rearranging the journal according to a count value and the transaction identification

10 information before distributing a journal; and

distributing the rearranged journal to the destination database for each transaction of updating the source database according to the transaction identification information.

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4. The method according to claim 3, further comprising:

associating the count value with the transaction identification information obtained

20 when the count value is obtained, and storing the count value and the transaction identification information in a journal management information storage unit;

associating the journal with the transaction

25 identification information obtained when the

journal is obtained, and storing the journal and the transaction identification information in a journal storage unit;

at a predetermined timing, obtaining
5   transaction identification information associated with a smallest count value from the journal management information storage unit; and

selecting a journal corresponding to the transaction identification information obtained
10   from the journal management information storage unit in journals stored in the journal storage unit as a journal to be distributed.

5.   A journal obtaining-distributing apparatus
15   which obtains a journal as an update result from a source database, and distributes the journal to a destination database, comprising:

a journal obtaining unit obtaining the journal from the source database;

20   an identification information acquisition unit obtaining transaction identification information for identifying a transaction of updating the source database when the journal is obtained;

a counter counting a number of times the
25   source database is updated;

a journal rearrangement unit rearranging the journal according to the count value and the transaction identification information before distributing a journal; and

5   a journal distribution unit distributing the obtained journal to the destination database for each transaction of updating the source database.